

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A cooling device for a fuel-recirculation circuit from the injection system to the tank of a motor vehicle, comprising a pipe designed to be traversed by the fuel and comprising a side wall, ~~wherein characterized in that~~ said side wall has at least one internal projection obtained by plastic deformation of said side wall and in that said cooling device does not comprise a radiating plate connected in a direct thermal exchange manner to said pipe, said side wall being entirely surrounded with a cooling current of air.

2. (Previously Presented) The cooling device according to Claim 1, characterized in that said pipe is coiled.

3. (Previously Presented) The cooling device according to Claim 2, characterized in that said coiled pipe comprises an alternating succession of elbows and rectilinear stretches.

4. (Previously Presented) The cooling device according to Claim 2, characterized in that it comprises a plurality of said projections.

5. (Previously Presented) The cooling device according to Claim 4, characterized in that said projections are made on said rectilinear stretches.

6. (Previously Presented) The cooling device according to Claim 1, characterized in that said projection or projections extend longitudinally.

7. (Previously Presented) The cooling device according to Claim 1, characterized in that said side wall is entirely surrounded with a cooling current of air.